

ABSTRACT

A cemented carbide with excellent properties for oil and gas applications regarding resistance to the combined erosion and corrosion synergistic effects at temperatures between -50 and 300°C and toughness. This object has been achieved with a cemented carbide
5 containing, in weight %, 8 - 12 Co+Ni with a weight ratio Co/Ni of 0.25-4, 1-2 Cr and 0.1-0.3 Mo wherein essentially all of the WC grains have a size $<1\ \mu\text{m}$ and with a magnetic cobalt content between 80 and 90% of that chemically determined.